


```

; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Atrax robustus
; FEEDBACK:
; NAME/KEY: Modified-site
; LOCATION: 37
; OTHER INFORMATION: /label= a
; OTHER INFORMATION: /note= "this site may be amidated without loss
; OTHER INFORMATION: of biological activity"
US-08-682-485A-4

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Query Match 39.54; Score 70; DB 1; Length 37;
Local Similarity 32.24; Pred. No. 0.079; Mismatches 6; Indels 2; Gaps 1;
Matches 12; Conservative 3; Nucleotides 2; Gaps 1;
Cy 4 CIPSGDLCFRSDHICGCSKCAP 26
Db 4 CIPSGGCPVMEH--CGSSCTY 24

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```

RESULT 2 314-4
US-08-6314-4
; Sequence 4, Application US/0893314
; Patent No. 5959182
; GENERAL INFORMATION:
; APPLICANT: ATKINSON, RONALD K
; APPLICANT: ATKINSON, ROBERT J
; APPLICANT: TYLER, VAEGRET J.
; APPLICANT: VONARX, EDWARD J.
; TITLE OF INVENTION: Insecticidal Toxins Derived From
; TITLE OF INVENTION: Tunnel Web (Atrax or Hadronyche Spiders)
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Zeneca, Inc.
; STREET: 1000 South 47th Street
; CITY: Richmond
; STATE: California
; COUNTRY: USA
; ZIP: 94804
; COMPUTER RENDABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; RELEASE DATE: 1994
; CURRENT APPLICATION DATA: Release #1.0, Version #1.25
; APPLICATION NUMBER: US/08/933,314
; FILING DATE:
; CLASSIFICATION: D24
; PRIORITY NUMBER:
; APPLICATION NUMBER: US/08/682,485
; FILING DATE: 17-JULY-1996
; APPLICATION NUMBER: US/08/256,933
; APPLICATION NUMBER: US/08/256,933
; APPLICATION NUMBER: NO 85/15108
; FILING DATE: 29-JAN-1993
; APPLICATION NUMBER: AU PI0722
; FILING DATE: 31-JAN-1992
; APPLICATION NUMBER: AU PI0722
; ATTORNEY/AGENT INFORMATION:
; NAME: Shaw, Melissa
; ADDRESS:
; TELEPHONE:
; TELEPHONE/DOCKET NUMBER: PPD 5099/D1
; REGISTRATION NUMBER: 38,301
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ANTI-SENSE: NO
; ANTI-SENSE: NO

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; ORIGINAL SOURCE:
; ORGANISM: Atrax robustus
; FEEDBACK:
; NAME/KEY: Modified-site
; LOCATION: 37
; OTHER INFORMATION: /label= a
; OTHER INFORMATION: /note= "this site may be amidated without loss
; OTHER INFORMATION: of biological activity"
US-08-933-314-4

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Query Match 39.54; Score 70; DB 2; Length 37;
Local Similarity 32.24; Pred. No. 0.079; Mismatches 6; Indels 2; Gaps 1;
Matches 12; Conservative 3; Nucleotides 2; Gaps 1;
Cy 4 CIPSGDLCFRSDHICGCSKCAP 26
Db 4 CIPSGGCPVMEH--CGSSCTY 24

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RESULT 3
US-07-689-693B-5
; Sequence 5, Application US/07689693B
; Patent No. 5231011
; GENERAL INFORMATION:
; APPLICANT: Balfour Beatty
; APPLICANT: Balfour Beatty
; APPLICANT: Balfour Beatty
; TITLE OF INVENTION: Segregated Folding Determinants
; TITLE OF INVENTION: For Small Disulfide-Rich Peptides
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Thorpe, No. 5231011th & Western
; STREET: 9035 South 700 East, Suite 200
; CITY: Sandy
; STATE: Utah
; COUNTRY: USA
; ZIP: 84070
; COMPUTER RENDABLE FORM:
; MEDIUM TYPE: Hard diskette, 3.5 inch, 720 Kb storage
; COMPUTER: COMPAQ LIFE/286
; OPERATING SYSTEM: DOS 4.01
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/689,693B
; FILING DATE: 1991C418
; CLASSIFICATION: 530
; PRIORITY NUMBER:
; APPLICATION NUMBER:
; FILING DATE: none
; ATTORNEY/AGENT INFORMATION:
; NAME: Westerg, M. Wayne
; ADDRESS:
; TELEPHONE:
; TELEPHONE/DOCKET NUMBER: 2,795
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (801) 566-6633
; TELEPHONE: (801) 566-0750
; INFORMATION FOR SEQUENCE CHARACTERISTICS:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 78 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: Peptide
; FEATURE:
; NAME/KEY: Prepropeptide sequence for four loop
; IDENTIFICATION METHOD: Library was constructed
; IDENTIFICATION METHOD: using polyA selected mRNA transcripts purified
; IDENTIFICATION METHOD: from Conus textile venom duct tissue and cloned
; IDENTIFICATION METHOD: into the Okyama-Berg oligo-dT primed plasmid
; IDENTIFICATION METHOD: PSV7186.
US-07-689-693B-5

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Query Match 37.34; Score 66; DB 1; Length 78;
Local Similarity 46.44; Pred. No. 0.43;

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Matches 13; Conservative 2; Mismatches 11; Indels 2; Gaps 2;
QY 2 RWCFPSGDLFRSHDGGCGK-APVC 28
DB 51 RWCKSGENCKMLDQ-NCCTGTCIVLVC 77

RESULT 4
US-08-624-123-13
US-08-624-123-13 Application US/08624123
Patent No. 573276
GENERAL INFORMATION:
APPLICANT: Shon, Ki-Joon
APPLICANT: Shon, Ki-Joon
APPLICANT: Olvera, Baldomeo M.
TITLE OF INVENTION: Conotoxin Peptides
NUMBER OF SEQUENCES: 13
CLASSIFICATION: C07D 311/00
ADDRESSER: vanbuisel Baetjer Howard & Civiletti
STREET: 1201 New York Avenue N.W.
CITY: Washington
STATE: DC
COUNTRY: US
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/624,123
PRIORITY INFORMATION:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/319,554
FILING DATE: 17-APR-1995
PRIORITY INFORMATION:
APPLICATION NUMBER: US 08/423,561
FILING DATE: 17-APR-1995
ATTORNEY/AGENT INFORMATION:
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24260-107674-5
TELEPHONE: 202-962-8310
TELEFAX: 202-962-8310
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 78 amino acids
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
MISCELLANEOUS INFORMATION: NO
US-08-624-123-13

Query Match
Resc Local Similarity 37.3%; Score 66; DB 1; Length 78;
Matches 13; Conservative 2; Mismatches 11; Indels 2; Gaps 2;
QY 2 RWCFPSGDLFRSHDGGCGK-APVC 28
DB 51 RWCKSGENCKMLDQ-NCCTGTCIVLVC 77

RESULT 6
US-08-624-123-16
US-08-624-123-16 Application US/08716308
Patent No. 588569
GENERAL INFORMATION:
APPLICANT: Windas, John D.
TITLE OF INVENTION: Biological Insect Control Agent
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSER: ZENCA Inc
STREET: 400 Concord Pike
CITY: Wilmington
STATE: DE
COUNTRY: USA
ZIP: 19806
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/716,308
FILING DATE: 24-SEP-1996
PRIORITY INFORMATION:
CLASSIFICATION: C07D 311/00
ADDRESSER: vanbuisel Baetjer Howard & Civiletti
STREET: 1201 New York Avenue N.W.
CITY: Washington
STATE: DC
COUNTRY: US
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/624,123
PRIORITY INFORMATION:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/319,554
FILING DATE: 17-APR-1995
PRIORITY INFORMATION:
APPLICATION NUMBER: US 08/423,561
FILING DATE: 17-APR-1995
ATTORNEY/AGENT INFORMATION:
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24260-107674-5
TELEPHONE: 202-962-8310
TELEFAX: 202-962-8310
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 78 amino acids
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
MISCELLANEOUS INFORMATION: NO
US-08-716-308-2

Query Match
Resc Local Similarity 46.4%; Pred. No. 0.43;
Matches 13; Conservative 2; Mismatches 11; Indels 2; Gaps 2;
QY 2 RWCFPSGDLFRSHDGGCGK-APVC 28
DB 51 RWCKSGENCKMLDQ-NCCTGTCIVLVC 77

RESULT 6
US-08-716-308-16
US-08-716-308-16 Application US/08716308
Patent No. 588569
GENERAL INFORMATION:
APPLICANT: Windas, John D.
TITLE OF INVENTION: Biological Insect Control Agent
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSER: ZENCA Inc
STREET: 400 Concord Pike
CITY: Wilmington
STATE: DE
COUNTRY: USA
ZIP: 19806
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/716,308
FILING DATE: 24-SEP-1996
PRIORITY INFORMATION:
CLASSIFICATION: C07D 311/00
ADDRESSER: vanbuisel Baetjer Howard & Civiletti
STREET: 1201 New York Avenue N.W.
CITY: Washington
STATE: DC
COUNTRY: US
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/624,123
PRIORITY INFORMATION:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/319,554
FILING DATE: 17-APR-1995
PRIORITY INFORMATION:
APPLICATION NUMBER: US 08/423,561
FILING DATE: 17-APR-1995
ATTORNEY/AGENT INFORMATION:
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24260-107674-5
TELEPHONE: 202-962-8310
TELEFAX: 202-962-8310
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 78 amino acids
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
MISCELLANEOUS INFORMATION: NO
US-08-716-308-2

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/ APPLICATION NUMBER: GB 9405951.6
/ FILING DATE: 25-MAR-1994
/ ATTORNEY/AGENT INFORMATION:
/   NAME: ROSENCRUTZ, Liza D.
/   REGISTRATION NUMBER: 1712
/   REFERENCE/DOCKET NUMBER: PP04007X/UST
/ TELECOMMUNICATION INFORMATION:
/   TELEPHONE: (302) 886-1699
/ INFORMATION FOR SEQ ID NO: 16:
/   SEQUENCE CHARACTERISTICS:
/     LENGTH: 78 amino acids
/     TYPE: amino acid
/     TOPOLOGY: linear
/ MOLECULE TYPE: peptide
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Query Match      37.3%; Score 66; DB 2; Length 78;
Best Local Similarity 46.4; Pred. No. 0.43;
Matches 13; Conservative 2; Mismatches 11; Indels 2; Gaps 2;

OY 2 RACIPGDLGCFRSDHICGSGKC-AFVC 28
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DB 51 RMCKQSGEMGNLLDQ-NCDDGYCYTVLVC 77

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RESULT 7
PCT-US96-05262-14
Sequence 14, Application PC/TUS9605262
GENERAL INFORMATION: Ki-Joon
APPLICANT: Grilley, Michelle M.
APPLICANT: Oliveira, Baldemero M.
APPLICANT: Yoshikami, Jojo
APPLICANT: Kawanishi, Kazuo
APPLICANT: Cruz, Lourdes J.
APPLICANT: Hillyard, David R.
TITLE OF INVENTION: Concoctin Peptides
INVENTOR: GRILLEY, MICHELLE M.
CORRESPONDENCE: 4
ADDRESSER: Venable, Baetier, Howard & Civiletti, LLP
STREET: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: U.S.A.

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Lotus 1-2-3, Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: FCT/US96/05362
FILING DATE: 17-APR-1996
COUNTRY OF ORIGIN: US
PRIOR APPLICATION NUMBER:
APPLICATION NUMBER: US 08/423,561
FILING DATE: 17-APR-1995
AGENCY/AGENT INFORMATION:
NAME: JAMES H. HARRIS
REGISTRATION NUMBER: 38,609
REFERENCE/DOCKET NUMBER: 24260-107674
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-562-5848
TELEFAX: 202-562-5830
INFORMATION FOR SEC ID NO.: 14:

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: SEQUENCE CHARACTERISTICS:
: LENGTH: 78 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: HYPOTHETICAL: NO
: PCNT-US96-05263-14

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Query Match	37.3%	Score 66	DB 5	Length 78
Best Local Similarity	46.4%	Pred. NO. 0.43		
Matches 13	Conservative 2	Mismatches 11	Indels	
QY	2	RWCTPSGDLCFRSHDHGCGSKC-AFVC	28	
DB	51	RWCTQSGEMCNLLDQ-NCGGYCTVLVVC	77	

RESULT 8
 US-07-489-693B-6
 Sequence 6, Application US/07689693B
 Patent No. 5231011
 CLASSIFICATION
 APPLICANT: GARDEN OF EARTHEN
 APPLICANT: Baldomero M. Olivera
 TITLE OF INVENTION: Segregated Folding Determinants
 TITLE OF INVENTION: Segregated Folding Determinants
 TITLE OF INVENTION: For Small Disulfide-rich Peptides
 CORRESPONDENCE ADDRESS 25
 CORRESPONDENCE ADDRESS
 ADDRESS: Thorpe, No. 5231011th & Western
 STREET: 9015 South 700 East, Suite 200
 CITY: Sandy
 STATE: Utah
 COUNTRY: USA
 ZIP: 84070

COMPUTER READABLE FORM:
1 MEDIUM TYPE: Diskette, 3.5 inch, 720 kb storage
2 FILE NAME: 07-639-693B
3 OPERATING SYSTEM: DOS 4.01
4 SOFTWARE: Word Perfect 5.1
5 CURRENT APPLICATION DATA:
6 FILING DATE: 19910418
7 CLASSIFICATION: 530
8 PRIOR APPLICATION DATA:
9 FILING DATE: none
10 FILING DATE: na
11 ATTORNEY/AGENT INFORMATION:
12 NAME: MESSERS, ROBERT
13 REGISTRATION NUMBER: 4976
14 REFERENCE/DOCKET NUMBER: 9945
15 TELECOMMUNICATION INFORMATION:
16 TELEPHONE: (801) 566-0780
17 TELEFAX: (801) 566-0780
18 INFORMATION FOR SEQ ID NO: 6:
19 SEQUENCE CHARACTERISTICS:
20 TYPE: AMINO ACID
21 TOPOLOGY: linear
22 MODIFICATION TYPE: none
23 MODIFICATION TYPE: peptide
24 NAME/KEY: King Kong (kko) conotoxin
25 IDENTIFICATION METHOD: Direct peptide sequencing
26 IDENTIFICATION METHOD: of purified Conus textile venom
27 US 07-639-693B-6

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Query Watch      34.5%; Score 61; DB 1; Length 27;
Best Local Similarity 44.4%; Pred. 0.66;
Matches 2; Conservative 2; Mismatches 11; Indels
Qy      3 WCTPSGDLCPFRSDHICGCGKGC-APVC 28
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Db      1 MCKGSGKMCNLLIAD-NCCDGYCIVLVC 26

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RESULT 9
US-08-682-485A-5
; Sequence 5, Application US/06682485A
; Patent No. 5733568
; GENERAL INFORMATION:
; APPLICANT: ATKINSON, RONALD K

APPLICANT: HOWDEN, MERLIN E.H.
 APPLICANT: TYLER, MARGARET J.
 TITLE OF INVENTION: Haerecticidal Toxins Derived From
 Funnel Web (Atarak or Hadronyche Spiders)
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: Zeneca, Inc.
 STREET: 1200 South 47th Street
 CITY: Richmond
 STATE: California
 COUNTRY: USA

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/682,485A

FILING DATE: 17-JULY-1996
 FILING DATE: 17-JULY-1996
 FILING DATE: 27-JULY-1994
 APPLICATION NUMBER: US/08/256,933
 APPLICATION NUMBER: US/03/15108
 FILING DATE: 29-JAN-1993
 APPLICATION NUMBER: AU PLO722
 ATTORNEY/AGENT INFORMATION:
 NAME: Shaw, Melissa A.
 REGISTRATION NUMBER: 38,301
 REFERENCE/DOCKET NUMBER: PPD 5099/D1
 TELEPHONE: 510-231-1152

INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 37
 TYPE: amino acid
 TOPOLOGY: linear
 MODIFICATION: protein
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Hadronyche versutus
 FEATURE:
 NAME/KEY: Modified-site
 LOCATION: 37
 OTHER INFORMATION: /label= a
 OTHER INFORMATION: /note= "this site may be amidated without loss
 of biological activity"
 US-08-682-485A-5

Query Match 32.8%; Score 59; DB 1; Length 37;
 Best Local Similarity 47.8%; Pred: No. 1.9;
 Matches 11; Conservative 3; Hamatches 7; Indels 2; Gaps 1;

Qy 4 CIPSDCLFRSHDGGCSGKCAF 26
 DB 4 CIPSGDPCPYNEN-CCSQGCTF 24

RESULT 10
 US-09-749-637a-5
 Sequence 5, Application US/0893314
 Patent No. 5955182
 GENERAL INFORMATION:
 APPLICANT: ATKINSON, RONALD K
 APPLICANT: ATKINSON, ROBERT H.
 APPLICANT: TYLER, MARGARET J.

APPLICANT: VONARX, EDWARD J.
 TITLE OF INVENTION: Haerecticidal Toxins Derived From
 Funnel Web (Atarak or Hadronyche Spiders)
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Zeneca, Inc.
 STREET: 1200 South 47th Street
 CITY: Richmond
 STATE: California
 COUNTRY: USA

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/933,314

FILING DATE: 17-JULY-1996
 FILING DATE: 17-JULY-1996
 FILING DATE: 27-JULY-1994
 APPLICATION NUMBER: US/08/256,933
 APPLICATION NUMBER: NO 93/15108
 FILING DATE: 29-JAN-1993
 APPLICATION NUMBER: AU PLO722
 ATTORNEY/AGENT INFORMATION:
 NAME: Shaw, Melissa A.
 REGISTRATION NUMBER: 38,301
 REFERENCE/DOCKET NUMBER: PPD 5099/D1
 TELEPHONE: 510-231-1542

INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 37
 TYPE: amino acid
 TOPOLOGY: linear
 MODIFICATION: protein
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Hadronyche versutus
 FEATURE:
 NAME/KEY: Modified-site
 LOCATION: 37
 OTHER INFORMATION: /label= a
 OTHER INFORMATION: /note= "this site may be amidated without loss
 of biological activity"
 US-08-933-314-5

Query Match 32.8%; Score 59; DB 2; Length 37;
 Best Local Similarity 47.8%; Pred: No. 1.9;
 Matches 11; Conservative 3; Hamatches 7; Indels 2; Gaps 1;

Qy 4 CIPSDCLFRSHDGGCSGKCAF 26
 DB 4 CIPSGDPCPYNEN-CCSQGCTF 24

RESULT 11
 US-09-136-769A-5
 Sequence 5, Application US/09136769A
 Patent No. 6307014
 GENERAL INFORMATION:
 APPLICANT: Buco
 APPLICANT: Purie, Barbara
 APPLICANT: Stenflo, Johan
 APPLICANT: Ridgby, Alan C.
 APPLICANT: Rosdstoff, Peter

```

1 ADDRESSEE: Zeneca, Inc.
2 STREET: 1200 South 47th Street
3 CITY: Richmond
4 STATE: California
5 COUNTRY: USA
6 ZIP: 94804
7
8 COMPUTER READABLE FORM:
9
10 MEDIUM TYPE: Floppy disk
11
12 OPERATING SYSTEM: COMPASS
13
14 SOFTWARE: PatentIn Release #1.0, Version #1.25
15
16 CURRENT APPLICATION DATA:
17 APPLICATION NUMBER: US/08/482,485A
18 PUBLICATION NUMBER:
19 CLASSIFICATION: 424
20
21 PRIOR APPLICATION DATA:
22 APPLICATION NUMBER: US/08/482,485
23 FILING DATE: 17-JULY-1996
24 PENDING DATE: 27-JULY-1994/756,933
25 FILING DATE: 27-JULY-1994/756,933
26
27 APPLICATION NUMBER: WO 93/15108
28 FILING DATE: 28-JAN-1993
29 PENDING DATE: 28-JAN-1992
30 FILING DATE: 31-JAN-1992
31
32 ATTORNEY/AGENT INFORMATION:
33 NAME: Shaw, Melissa A.
34 REGISTRATION NUMBER: 38,301
35 FIRM: SHAW, MCGILL & ASSOCIATES, PFD 5099/D1
36 TELECOMMUNICATION INFORMATION:
37 TELEPHONE: 510-231-1542
38 TELEFAX: 510-231-1112
39
40 INFORMATION FOR SEQ ID NO: 2:
41 SOURCE: CHEMICAL ABSTRACTS
42 LENGTH: 37 amino acids
43 TYPE: amino acid
44
45 TOPOLOGY: linear
46
47 MOLECULE TYPE: protein
48
49 HYDROLYZABLE: NO
50
51 ANTI-SENSE: NO
52
53 ORIGINAL SOURCE:
54
55 ORGANISM: Atrax infensus
56
57 FEATURE:
58 NAME/KEY: Modified-site
59 LOCATION: 37
60
61 OTHER INFORMATION: /label = a
62
63 OTHER INFORMATION: /notes = "this amino acid may be amidated without
64
65 OTHER INFORMATION: loss of biological activity"
66
67 US-08-482-485A-2
68
69 Query Match 29.4%; Score 52; DB 1; Length 37;
70 Best Local Similarity 39.1%; Pred. No. 9.3;
71 Matches 3; Conservative 5; Mismatches 7; Indels 2; Gaps
72
73 QY 4 CIPSGDLCFRSHDCCGCKAF 26
74
75 DB 4 CIPGQPCPYNEN-CCSQCY 24
76
77 RESULT 14
78 US-08-493-314-2
79
80 Publication US/08993314
81 Patent No. 5595112
82
83 GENERAL INFORMATION:
84
85 APPLICANT: ATKINSON, RONALD K.
86 APPLICANT: HOWDEN, MERLIN E. H.
87 APPLICANT: ROBERTS, IAN
88 APPLICANT: VONKEY, EDWARD J.
89
90 TITLE OF INVENTION: Insecticidal Toxins Derived From
91
92 TITLE OF INVENTION: Funnel Web (Atrax or Hadronyche Spiders)
93
94 NUMBER OF SEQUENCES: 26
95
96 COUNTRY: USA
97 ADDRESS: Zeneca, Inc.
98 STREET: 1200 South 47th Street

```

```

1  ZIP: 901304
2  COMPUTER READABLE FORM:
3  * 5.25 INCH FLOPPY disk
4  * 3.5 INCH FLOPPY disk
5  COMPILER: IBM
6  OPERATING SYSTEM: PC-DOS/MS-DOS
7  SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
8  CURRENT APPLICATION DATA:
9  * 1. INVENTION NUMBER: US/08/543,238
10 * 2. PRIORITY NUMBER: US/08/543,238
11 * 3. FILING DATE:
12 * 4. CLASSIFICATION:
13 * 5. ATTORNEY/AGENT INFORMATION:
14 * 6. REGISTRATION NUMBER: 341,969
15 * 7. REFERENCE/DOCKET NUMBER: 137-1075/WA
16 * 8. TELECOMMUNICATION INFORMATION:
17 * 9. TELEPHONE: 415/761-1258
18 * 10. TELEFAX: 415/761-1258
19 * 11. INFORMATION FOR SEQ ID NO: 8:
20 * 12. SEQUENCE CHARACTERISTICS: 8:
21 * 13. LENGTH: 111 amino acids
22 * 14. TYPE: amino acids
23 * 15. TOPOLOGY: linear
24 * 16. MOLECULE TYPE: protein
25
26 US-08: 238-9
27
28 Query Match 29 18, Score 51.5, DB 1: Length
29 Best Local Similarity 48 18; Pred No. 27;
30 Matches 13; Conservative 2; Mismatches 9; Indel
31
32 QY 1 LKNCVTSDDLCFRRHGGCCSK-KQRF 26
33 | | | | |
34 | | | | |
35
36 DB 78 LKACVFGQGDICSRN--CCSPCKNF 102
37
38 Search completed, November 17, 2003, 17:11:57
39 Job time : 15.0179 secs

```

Result	Score	Query #	Length	DB	ID	Description
1	177	100.0	39	10	US-09-749-6578-270	Sequence 170, App
2	168	97.5	39	10	US-09-749-6578-270	Sequence 167, App
3	163	97.5	39	10	US-09-749-6578-251	Sequence 167, App
4	159	95.8	39	10	US-09-749-6578-351	Sequence 167, App
5	150	84.7	37	11	US-09-749-6578-368	Sequence 169, App
6	145	84.7	37	11	US-09-749-6578-368	Sequence 169, App
7	140	83.6	37	10	US-09-749-6578-270	Sequence 171, App
8	140	83.6	39	10	US-09-749-6578-270	Sequence 171, App
9	147	83.1	39	10	US-09-749-6578-368	Sequence 168, App
10	147	83.1	39	10	US-09-749-6578-368	Sequence 168, App
11	143	80.8	39	10	US-09-749-6578-345	Sequence 172, App
12	140	79.1	39	10	US-09-749-6578-345	Sequence 172, App
13	136	76.9	39	10	US-09-749-6578-372	Sequence 172, App
14	136	76.9	39	10	US-09-749-6578-372	Sequence 172, App
15	133	75.1	31	10	US-09-749-6578-366	Sequence 166, App
16	133	75.1	31	10	US-09-749-6578-366	Sequence 166, App

Qy 1 LKWCPSGDLFRSDHIGCCSGKAFVCL 29
Db 1 LKWCPSGDLFRSDHIGCCSGKAFVCL 29

RESULT 2

US-09-749-637A-267
Sequence 267, Application US/09749637A
Patent No. US0202173449A1
GENERAL INFORMATION:
APPLICANT: University of Utah Research Foundation
APPLICANT: Oliviera, Baldomero M.
APPLICANT: Cartier, G. Edward
APPLICANT: Hilliard, David R.
APPLICANT: McIntosh, J. Michael
APPLICANT: Laver, Richard T.
TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
FILE REFERENCE: 2314-227
CURRENT APPLICATION NUMBER: US/09/749,637A
PRIORITY APPLICATION NUMBER: US 60/243,412
PRIOR FILING DATE: 2000-10-37
PRIOR APPLICATION NUMBER: US60/219,440
PRIOR FILING DATE: 2000-06-26
PRIOR APPLICATION NUMBER: US 60/214,263
PRIOR FILING DATE: 2000-06-26
PRIOR APPLICATION NUMBER: US 60/173,754
PRIOR FILING DATE: 2000-06-26
NUMBER OF SEQ ID NOS: 409
SOFTWARE: PatentIn version 3.0
SEQ ID NO 267
CURRENT FILING DATE: 2000-12-28
CURRENT APPLICATION NUMBER: US/09/749,637A
TYPE: PPT
ORGANISM: Conus striatus
US-09-749-637A-267

Query Watch 97.7%; Score 173; DB 10; Length 29;
Best Local Similarity 96.6%; Pred. No. 1.7e-14;
Matches 28; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LKWCPSGDLFRSDHIGCCSGKAFVCL 29
Db 1 LKWCPSGDLFRSDHIGCCSGKAFVCL 29

RESULT 3

US-09-749-637A-273
Sequence 273, Application US/09749637A
Patent No. US0202173449A1
GENERAL INFORMATION:
APPLICANT: University of Utah Research Foundation
APPLICANT: Oliviera, Baldomero M.
APPLICANT: Cartier, G. Edward
APPLICANT: Hilliard, David R.
APPLICANT: McIntosh, J. Michael
APPLICANT: Laver, Richard T.
TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
FILE REFERENCE: 2314-227
CURRENT APPLICATION NUMBER: US/09/749,637A
PRIORITY APPLICATION NUMBER: US 60/243,412
PRIOR FILING DATE: 2000-12-28
PRIOR APPLICATION NUMBER: US 60/214,263
PRIOR FILING DATE: 2000-06-26
PRIOR APPLICATION NUMBER: US60/219,440
PRIOR FILING DATE: 2000-07-20
PRIOR APPLICATION NUMBER: US 60/214,263
PRIOR FILING DATE: 2000-07-20
PRIOR APPLICATION NUMBER: US 60/173,754
PRIOR FILING DATE: 2000-06-26

PRIOR FILING DATE: 1999-12-30
NUMBER OF SEQ ID NOS: 409
SOFTWARE: PatentIn version 3.0
SEQ ID NO 273
CURRENT FILING DATE: 2000-12-28
CURRENT APPLICATION NUMBER: US/09/749,637A
TYPE: PPT
ORGANISM: Conus striatus
US-09-749-637A-273

Query Watch 95.5%; Score 169; DB 10; Length 29;
Best Local Similarity 96.5%; Pred. No. 5.1e-14;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LKWCPSGDLFRSDHIGCCSGKAFVCL 29
Db 1 LKWCPSGDLFRSDHIGCCSGKAFVCL 29

RESULT 4

US-09-749-637A-393
Sequence 393, Application US/09749637A
Patent No. US0202173449A1
GENERAL INFORMATION:
APPLICANT: University of Utah Research Foundation
APPLICANT: Oliviera, Baldomero M.
APPLICANT: Cartier, G. Edward
APPLICANT: Hilliard, David R.
APPLICANT: McIntosh, J. Michael
APPLICANT: Laver, Richard T.
TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
FILE REFERENCE: 2314-227
CURRENT APPLICATION NUMBER: US/09/749,637A
PRIORITY APPLICATION NUMBER: US 60/243,412
PRIOR FILING DATE: 2000-12-28
CURRENT FILING DATE: 2000-12-28
CURRENT APPLICATION NUMBER: US 60/243,412
PRIOR FILING DATE: 2000-10-27
PRIOR APPLICATION NUMBER: US60/219,440
PRIOR FILING DATE: 2000-07-20
PRIOR APPLICATION NUMBER: US 60/214,263
PRIOR FILING DATE: 2000-06-26
PRIOR APPLICATION NUMBER: US 60/173,754
PRIOR FILING DATE: 1999-12-30
NUMBER OF SEQ ID NOS: 409
SOFTWARE: PatentIn version 3.0
SEQ ID NO 393
CURRENT FILING DATE: 2000-12-28
CURRENT APPLICATION NUMBER: US/09/749,637A
TYPE: PPT
ORGANISM: Conus stercusmuscarum
US-09-749-637A-393

Query Watch 89.8%; Score 159; DB 10; Length 82;
Best Local Similarity 89.7%; Pred. No. 2.1e-12;
Matches 26; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LKWCPSGDLFRSDHIGCCSGKAFVCL 29
Db 54 LKWCPSGDLFRSDHIGCCSGKAFVCL 82

RESULT 5

US-09-749-637A-369
Sequence 369, Application US/09749637A
Patent No. US0202173449A1
GENERAL INFORMATION:
APPLICANT: University of Utah Research Foundation
APPLICANT: Oliviera, Baldomero M.
APPLICANT: Cartier, G. Edward
APPLICANT: Hilliard, David R.
APPLICANT: McIntosh, J. Michael

```

; APPLICANT: Laves, Richard T.
; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
; FILE REFERENCE: 2314-227
; CURRENT APPLICATION NUMBER: US/09/749,637A
; PRIORITY FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/243,412
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US60/219,440
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: US 60/214,263
; PRIOR FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: US 60/173,754
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 409
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 369
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Conus circumcinctus
US-09-749-637a-369

```

```

Query Match      84.78; Score 150; DB 10; Length 31;
Best Local Similarity 86.24; Pred. No. 1.2e-11;
Matches 25; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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```

QY 1 LKWCIPSGDLCFRSDHIGCCSGKCAFPVCL 29
DB 3 LKWCIPSGDLCFRSDHIGCCSGKCAFPVCL 31

```

```

RESULT 6
US-09-749-637a-378
; Sequence 378, Application US/09749637A
; Patent No. US20020173449A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Oliviera, Baldomero M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Watkins, Maren
; APPLICANT: Hillward, David R.
; APPLICANT: Laves, Robert M.
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
; FILE REFERENCE: 2314-227
; CURRENT APPLICATION NUMBER: US/09/749,637A
; CURRENT FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/243,412
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: US 60/214,263
; PRIOR FILING DATE: 1999-12-30
; NUMBER OF SEQ ID NOS: 409
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 380
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Conus circumcinctus
US-09-749-637a-378

```

```

Query Match      84.78; Score 150; DB 10; Length 31;
Best Local Similarity 86.24; Pred. No. 1.2e-11;
Matches 25; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

```

```

QY 1 LKWCIPSGDLCFRSDHIGCCSGKCAFPVCL 29
DB 3 LKWCIPSGDLCFRSDHIGCCSGKCAFPVCL 31

```

```

RESULT 7
US-09-749-637a-271
; Sequence 271, Application US/09749637A
; Patent No. US20020173449A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Oliviera, Baldomero M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Watkins, Maren
; APPLICANT: Hillward, David R.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
; FILE REFERENCE: 2314-227
; CURRENT APPLICATION NUMBER: US/09/749,637A
; CURRENT FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/243,412
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US60/219,440
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: US 60/214,263
; PRIOR FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: US 60/173,754
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 409
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 271
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Conus striatus
; FEATURE: SITE
; LOCATION: (11..27)
; OTHER INFORMATION: Xaa at residue 1 may be Trp or bromo-Trp; Xaa at residue 4 may be
; OTHER INFORMATION: Pro or hydroxy-Pro
US-09-749-637a-271

```

```

Query Match      83.61; Score 148; DB 10; Length 27;
Best Local Similarity 96.24; Pred. No. 1.8e-11;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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```

QY 4 CIPSGDLFRSDHIGCCSGKCAFPVCL 29
DB 2 CIPSGDLFRSDHIGCCSGKCAFPVCL 27

```

```

RESULT 8
US-09-749-637a-269
; Sequence 269, Application US/09749637A
; Patent No. US20020173449A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Oliviera, Baldomero M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Watkins, Maren
; APPLICANT: Hillward, David R.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Laves, Richard T.
; APPLICANT: Jones, Robert M.
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
; FILE REFERENCE: 2314-227
; CURRENT APPLICATION NUMBER: US/09/749,637A
; CURRENT FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/243,412
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: US60/219,440
; PRIOR FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: US 60/173,754
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 409
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 269
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Conus circumcinctus
US-09-749-637a-269

```

```

1 PRIOR APPLICATION NUMBER: US 60/173,754
2 PRIORITY DATE: 2000-06-26
3 NUMBER OF SEQ ID NOS: 30
4 SOFTWARE: PatentIn version 3.0
5 SEQ ID NO: 268
6 LENGTH: 29
7 TYPE: PRT
8 ORGANISM: Conus striatus
9 FEATURE: SITE
10 LOCUS: YG13 (29)
11 OTHER INFORMATION: Xaa at residue3 may be Trp or bromo-Trp; Xaa at residue 6 may be
12 Trp or bromo-Trp; Xaa at residue 9 may be Glu or gamma-carboxy
13 glutamic acid; Xaa at residue 10: -Glu
14 US-09-749-637A-268
15
16 Query Match      83.6%; Score 148; DB 10; Length 29;
17 Best Local Similarity 83.6%; Pident 100; Mismatches 0; Indels 0; Gaps 0;
18 Matches 26; Conservative 0; Mismatches 0;
19
20 QY 1 LRMCTPSDGLCFPSDHGCCSGKAFVCL 29
21 DB 1 LRMCTPSDGLCFPSDHGCCSGKAFVCL 29
22
23 RESULT 9
24 US-09-637A-384
25 Sequence 384, Application US/09749637A
26 GENBRAT INFORMATION: University of Utah Research Foundation
27 APPLICANT: Cognetix, Inc.
28 APPLICANT: Oliviera, Baldozero M.
29 APPLICANT: Cartier, G. Edward
30 APPLICANT: Hilliard, David R.
31 APPLICANT: McIntosh, J. Michael
32 APPLICANT: Layer, Richard T.
33 TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
34 FILE REFERENCE: 2314-227
35 CURRENT APPLICATION NUMBER: US/09/749,637A
36 PRIOR FILING DATE: 2000-10-27
37 PRIOR APPLICATION NUMBER: US 60/243,412
38 PRIOR FILING DATE: 2000-10-27
39 PRIOR APPLICATION NUMBER: US60/219,440
40 PRIOR FILING DATE: 2000-06-26
41 PRIOR APPLICATION NUMBER: US 60/214,263
42 PRIOR FILING DATE: 2000-06-26
43 PRIOR APPLICATION NUMBER: US 60/173,754
44 NUMBER OF SEQ ID NOS: 403
45 SOFTWARE: PatentIn version 3.0
46 SEQ ID NO: 384
47 LENGTH: 29
48 TYPE: PRT
49 ORGANISM: Conus circumcinctus
50 US-09-749-637A-384
51
52 Query Match      83.1%; Score 147; DB 10; Length 31;
53 Best Local Similarity 83.1%; Pident 100; Mismatches 4; Indels 0; Gaps 0;
54 Matches 24; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
55
56 QY 1 LRMCTPSDGLCFPSDHGCCSGKAFVCL 29
57 DB 3 LRMCTPSDGLCFPSDHGCCSGKAFVCL 31
58
59 RESULT 10
60 US-09-637A-387
61 Sequence 387, Application US/09749637A
62 GENBRAT INFORMATION: University of Utah Research Foundation
63 APPLICANT: Cognetix, Inc.
64 APPLICANT: Oliviera, Baldozero M.
65 APPLICANT: Cartier, G. Edward
66 APPLICANT: Hilliard, David R.
67 APPLICANT: McIntosh, J. Michael
68 APPLICANT: Layer, Richard T.
69 TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
70 FILE REFERENCE: 2314-227
71 CURRENT APPLICATION NUMBER: US/09/749,637A
72 PRIOR FILING DATE: 2000-10-27
73 PRIOR APPLICATION NUMBER: US 60/243,412
74 PRIOR FILING DATE: 2000-10-27
75 PRIOR APPLICATION NUMBER: US60/219,440
76 PRIOR FILING DATE: 2000-06-26
77 PRIOR APPLICATION NUMBER: US 60/173,754
78 NUMBER OF SEQ ID NOS: 403
79 SOFTWARE: PatentIn version 3.0
80 SEQ ID NO: 384
81 LENGTH: 29
82 TYPE: PRT
83 ORGANISM: Conus circumcinctus
84 US-09-749-637A-387
85
86 Query Match      82.1%; Score 147; DB 10; Length 31;
87 Best Local Similarity 82.1%; Pident 100; Mismatches 4; Indels 0; Gaps 0;
88 Matches 24; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
89
90 QY 1 LRMCTPSDGLCFPSDHGCCSGKAFVCL 29
91 DB 3 LRMCTPSDGLCFPSDHGCCSGKAFVCL 31
92
93 RESULT 11
94 US-09-749-637A-345
95 Sequence 345, Application US/09749637A
96 GENBRAT INFORMATION: University of Utah Research Foundation
97 APPLICANT: Cognetix, Inc.
98 APPLICANT: Oliviera, Baldozero M.
99 APPLICANT: Cartier, G. Edward
100 APPLICANT: Hilliard, David R.
101 APPLICANT: McIntosh, J. Michael
102 APPLICANT: Layer, Richard T.
103 TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
104 FILE REFERENCE: 2314-227
105 CURRENT APPLICATION NUMBER: US/09/749,637A
106 PRIOR FILING DATE: 2000-10-27
107 PRIOR APPLICATION NUMBER: US 60/243,412
108 PRIOR FILING DATE: 2000-10-27
109 PRIOR APPLICATION NUMBER: US60/219,440
110 PRIOR FILING DATE: 2000-06-26
111 PRIOR APPLICATION NUMBER: US 60/173,754
112 NUMBER OF SEQ ID NOS: 403
113 SOFTWARE: PatentIn version 3.0
114 SEQ ID NO: 345
115 LENGTH: 29
116 TYPE: PRT
117 ORGANISM: Conus achatinus
118 US-09-749-637A-345
119
120 Query Match      80.8%; Score 143; DB 10; Length 29;

```

```

1 APPLICANT: University of Utah Research Foundation
2 GENBRAT INFORMATION: University of Utah Research Foundation
3 APPLICANT: Oliviera, Baldozero M.
4 APPLICANT: Cartier, G. Edward
5 APPLICANT: Watkins, Maron
6 APPLICANT: Hilliard, David R.
7 APPLICANT: McIntosh, J. Michael
8 APPLICANT: Layer, Richard T.
9 APPLICANT: Jones, Robert M.
10 APPLICANT: Jones, Robert M.
11 TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
12 FILE REFERENCE: 2314-227
13 CURRENT APPLICATION NUMBER: US/09/749,637A
14 PRIOR FILING DATE: 2000-12-28
15 PRIOR APPLICATION NUMBER: US 60/243,412
16 PRIOR FILING DATE: 2000-10-27
17 PRIOR APPLICATION NUMBER: US60/219,440
18 PRIOR FILING DATE: 2000-07-20
19 PRIOR APPLICATION NUMBER: US 60/214,263
20 PRIOR FILING DATE: 2000-06-26
21 PRIOR APPLICATION NUMBER: US 60/173,754
22 PRIOR FILING DATE: 1999-12-30
23 NUMBER OF SEQ ID NOS: 409
24 SOFTWARE: PatentIn version 3.0
25 SEQ ID NO: 387
26 LENGTH: 31
27 TYPE: PRT
28 ORGANISM: Conus circumcinctus
29 US-09-749-637A-387
30
31 Query Match      83.1%; Score 147; DB 10; Length 31;
32 Best Local Similarity 83.1%; Pident 100; Mismatches 4; Indels 0; Gaps 0;
33 Matches 23; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
34
35 QY 1 LRMCTPSDGLCFPSDHGCCSGKAFVCL 29
36 DB 3 LRMCTPSDGLCFPSDHGCCSGKAFVCL 31
37
38 RESULT 11
39 US-09-749-637A-345
40 Sequence 345, Application US/09749637A
41 GENBRAT INFORMATION: University of Utah Research Foundation
42 APPLICANT: Cognetix, Inc.
43 APPLICANT: Oliviera, Baldozero M.
44 APPLICANT: Cartier, G. Edward
45 APPLICANT: Hilliard, David R.
46 APPLICANT: McIntosh, J. Michael
47 APPLICANT: Layer, Richard T.
48 TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
49 FILE REFERENCE: 2314-227
50 CURRENT APPLICATION NUMBER: US/09/749,637A
51 PRIOR FILING DATE: 2000-10-27
52 PRIOR APPLICATION NUMBER: US 60/243,412
53 PRIOR FILING DATE: 2000-10-27
54 PRIOR APPLICATION NUMBER: US60/219,440
55 PRIOR FILING DATE: 2000-06-26
56 PRIOR APPLICATION NUMBER: US 60/173,754
57 NUMBER OF SEQ ID NOS: 403
58 SOFTWARE: PatentIn version 3.0
59 SEQ ID NO: 345
60 LENGTH: 29
61 TYPE: PRT
62 ORGANISM: Conus achatinus
63 US-09-749-637A-345
64
65 Query Match

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```

Best Local Similarity 79.3%; Pred. No. 7.8e-11;
Matches 23; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 1 LRWCITPSGDLCFRSDHIOCCSGKCAVCL 29
DB 1 LRWCITPSGDLCFRSDHIOCCSGKCAVCL 29

RESULT 12
US-09-749-637A-274
; Sequence 372; Application US/09749637A
; Patent No. US20020173449A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Olivera, Baldozero M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Watkins, Maren R.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Mcintosh, J. Michael
; APPLICANT: Layer, Richard T.
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
; FILE REFERENCE: 2314-2275
; CURRENT APPLICATION NUMBER: US/09/749-637A
; PRIOR FILING DATE: 2000-12-28
; PRIOR FILING DATE: 2000-10-29; 60/243,412
; PRIOR APPLICATION NUMBER: US60/219,440
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: US 60/214,263
; PRIOR FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: US 60/173,754
; NUMBER OF SEQ ID NOS: 409
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 274
; TYPE: PRT
; LENGTH: 27
; FEATURE:
; NAME/KEY: SITE (127)
; LOCATION (111): Xaa at residue may be Trp or bromo-Trp; Xaa at residue 4 may be
; OTHER INFORMATION: Pro or hydroxy-Pro
US-09-749-637A-274

Query Match 79.3%; Score 140; DB 10; Length 27;
Best Local Similarity 92.3%; Pred. No. 1.7e-10;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 CTPSGDLCFRSDHIOCCSGKCAVCL 29
DB 2 CTPSGDLCFRSDHIOCCSGKCAVCL 27

RESULT 13
US-09-749-637A-372
; Sequence 372; Application US/09749637A
; Patent No. US20020173449A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Watkins, Maren
; APPLICANT: Hilliard, David R.
; APPLICANT: Layer, Richard T.
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
; FILE REFERENCE: 2314-2275
; CURRENT APPLICATION NUMBER: US/09/749-637A
; PRIOR FILING DATE: 2000-12-28
; PRIOR FILING DATE: 2000-10-29; 60/243,412
; PRIOR APPLICATION NUMBER: US60/219,440
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: US 60/214,263
; PRIOR FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: US 60/173,754
; NUMBER OF SEQ ID NOS: 409
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 372
; TYPE: PRT
; LENGTH: 31
; FEATURE:
; NAME/KEY: SITE (127)
; LOCATION (111): Xaa at residue may be Trp or bromo-Trp; Xaa at residue 4 may be
; OTHER INFORMATION: Pro or hydroxy-Pro
US-09-749-637A-372

Query Match 76.8%; Score 135; DB 10; Length 29;
Best Local Similarity 69.0%; Pred. No. 7.4e-10;
Matches 20; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 1 LRWCITPSGDLCFRSDHIOCCSGKCAVCL 29
DB 1 LRWCITPSGDLCFRSDHIOCCSGKCAVCL 29

RESULT 15
US-09-749-637A-366
; Sequence 366; Application US/09749637A
; Patent No. US20020173449A1

```

```

; CURRENT FILING DATE: 2000-12-28
; PRIOR FILING DATE: 2000-10-29; 60/243,412
; PRIOR APPLICATION NUMBER: US60/219,440
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: US 60/214,263
; PRIOR FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: US 60/173,754
; PRIOR FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: US 60/173,754
; NUMBER OF SEQ ID NOS: 409
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 372
; LENGTH: 31
; TYPE: PRT
; FEATURE:
; NAME/KEY: SITE (127)
; LOCATION (111): Xaa at residue may be Trp or bromo-Trp; Xaa at residue 4 may be
; OTHER INFORMATION: Pro or hydroxy-Pro
US-09-749-637A-372

Query Match 76.8%; Score 136; DB 10; Length 31;
Best Local Similarity 69.0%; Pred. No. 7.4e-10;
Matches 23; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 4 CTPSGDLCFRSDHIOCCSGKCAVCL 29
DB 6 CTPSGDLCFRSDHIOCCSGKCAVCL 31

RESULT 14
US-09-749-637A-348
; Sequence 348; Application US/09749637A
; Patent No. US20020173449A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldozero M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Hilliard, David R.
; APPLICANT: Layer, Richard T.
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
; FILE REFERENCE: 2314-2275
; CURRENT APPLICATION NUMBER: US/09/749-637A
; PRIOR FILING DATE: 2000-12-28
; PRIOR FILING DATE: 2000-10-29; 60/243,412
; PRIOR APPLICATION NUMBER: US60/219,440
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: US 60/214,263
; PRIOR FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: US 60/173,754
; NUMBER OF SEQ ID NOS: 409
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 348
; TYPE: PRT
; LENGTH: 29
; FEATURE:
; NAME/KEY: SITE (127)
; LOCATION (111): Xaa at residue may be Trp or bromo-Trp; Xaa at residue 4 may be
; OTHER INFORMATION: Pro or hydroxy-Pro
US-09-749-637A-348

Query Match 76.3%; Score 135; DB 10; Length 29;
Best Local Similarity 69.0%; Pred. No. 7.4e-10;
Matches 20; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 1 LRWCITPSGDLCFRSDHIOCCSGKCAVCL 29
DB 1 LRWCITPSGDLCFRSDHIOCCSGKCAVCL 29

RESULT 15
US-09-749-637A-366
; Sequence 366; Application US/09749637A
; Patent No. US20020173449A1

```

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/ GENERAL INFORMATION:
/ APPLICANT: University of Utah Research Foundation
/ APPLICANT: Cognetix, Inc.
/ APPLICANT: Olivera, Baldozero M.
/ APPLICANT: Carter, Charles Edward
/ APPLICANT: Hillyard, David R.
/ APPLICANT: McIntosh, J. Michael
/ APPLICANT: Laver, Richard M.
/ APPLICANT: Baldozero, M.
/ TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
/ FILE REFERENCE: 2114-227
/ CURRENT APPLICATION NUMBER: US/09/749,637A
/ CURRENT FILING DATE: 2000-06-26
/ PRIOR APPLICATION NUMBER: US 60/243,412
/ PRIOR FILING DATE: 2000-10-27
/ PRIOR APPLICATION NUMBER: US60/219,440
/ PRIOR FILING DATE: 2000-06-26
/ PRIOR APPLICATION NUMBER: US 60/214,263
/ PRIOR FILING DATE: 2000-06-26
/ PRIOR APPLICATION NUMBER: US 60/173,754
/ PRIOR FILING DATE: 1999-04-30
/ NUMBER OF SEQ ID NOS: 409
/ SOFTWARE: Patent in version 3.0
/ SEQ ID NO 366
/ LENGTH: 31
/ TYPE: PRT
/ ORGANISM: Conus circumcinctus
/ US-09-749-637A-366

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Query Match      75.1%; Score 133; DP 10; Length 31.
Best Local Similarity 84.6%; Pred. No. 1,4e-09;
Matches 22; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      4  CIPSGDLCPFSRHGCGSCGKCPVCL 29
DB      6  CIPSGDLCPFSRHGCGSCGKCPVCL 31

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Search completed: November 17, 2003, 17:19:22
Job time : 25.8571 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: November 17, 2003, 17:11:18 ; Search time 23.1429 Seconds
212.986 Million cell updates/sec
(Without alignments)

Title: US-09-749-637A-271

Perfect score: 152

Sequence: 1 XCIKSGDLCFSSHHICSGKCAFVCL 27

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 666188 seq. 18259486 residues

Total number of hits satisfying chosen parameters: 666188

Minimum DB seq length: 200000000

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published Applications AA:*

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3: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*
4: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*
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6: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*
7: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*
8: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*
9: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*
10: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*
11: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*
12: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*
13: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*
14: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*
15: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*
16: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*
17: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*
18: /cgn2_6/pdata/2/pubseq/US97_FU0CMB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	149	98.0	27	10	US-09-749-637A-271
2	148	97.4	29	10	US-09-749-637A-270
3	147	96.8	29	10	US-09-749-637A-269
4	142	93.4	29	10	US-09-749-637A-268
5	141	92.8	27	10	US-09-749-637A-272
6	140	92.1	29	10	US-09-749-637A-273
7	139	91.5	29	10	US-09-749-637A-274
8	138	90.9	29	10	US-09-749-637A-275
9	129	84.9	27	10	US-09-749-637A-370
10	129	84.9	27	10	US-09-749-637A-379
11	127	83.6	31	10	US-09-749-637A-369
12	127	83.6	31	10	US-09-749-637A-378
13	127	83.6	31	10	US-09-749-637A-378
14	126	82.9	26	10	US-09-749-637A-367
15	126	82.9	27	10	US-09-749-637A-385

16 126 82.9 27 10 US-09-749-637A-388
17 124 81.6 31 10 US-09-749-637A-366
18 124 81.6 31 10 US-09-749-637A-384
19 123 80.3 26 10 US-09-749-637A-382
20 123 80.3 26 10 US-09-749-637A-382
21 120 78.9 36 10 US-09-749-637A-376
22 120 78.9 31 10 US-09-749-637A-375
23 120 78.9 31 10 US-09-749-637A-375
24 119 78.3 29 10 US-09-749-637A-348
25 118 77.6 27 10 US-09-749-637A-394
26 116 76.3 27 10 US-09-749-637A-346
27 116 76.3 27 10 US-09-749-637A-346
28 113 74.3 27 10 US-09-749-637A-349
29 101 66.4 33 10 US-09-749-637A-276
30 98 64.5 29 10 US-09-749-637A-277
31 98 64.5 29 10 US-09-749-637A-277
32 66 43.4 26 10 US-09-749-637A-286
33 66 43.4 26 10 US-09-749-637A-282
34 65.5 43.1 28 10 US-09-749-637A-301
35 65.5 43.1 28 10 US-09-749-637A-301
36 65.5 43.1 27 10 US-09-749-637A-333
37 65.5 43.1 78 10 US-09-749-637A-285
38 65 42.8 54 10 US-09-749-637A-285
39 61.5 42.4 25 10 US-09-749-637A-387
40 61.5 42.4 25 10 US-09-749-637A-387
41 64 42.1 33 10 US-09-749-637A-255
42 63.5 41.8 27 10 US-09-749-637A-325
43 63.5 41.8 27 10 US-09-749-637A-325
44 63.5 41.8 22 10 US-09-749-637A-259
45 62.5 41.1 27 10 US-09-749-637A-400

ALIGNMENTS

RESULT 1
Sequence 271, Application US/09749637A
US-09-749-637A-271
GENERAL INFORMATION: US/09749637A
US-09-749-637A-271
APPLICANT: Oliviera, Baldemero M.
APPLICANT: Catties, G. Edward
APPLICANT: Catties, G. Edward
APPLICANT: Hillward, David R.
APPLICANT: McIntosh, J. Michael
APPLICANT: Layer, Richard T.
TITLE OF INVENTION: C-Superfamily Conotoxin Peptides
PRIORITY CLAIMS: US 60/213,412
CURRENT APPLICATION NUMBER: US/09749637A
PRIORITY CLAIM NUMBER: US 60/213,412
PRIOR FILING DATE: 2000-10-27
PRIOR APPLICATION NUMBER: US60/219,440
PRIOR FILING DATE: 2000-06-26
PRIOR APPLICATION NUMBER: US 60/214,263
PRIOR FILING DATE: 2000-06-26
PRIOR APPLICATION NUMBER: US 60/173,754
NUMBER OF SEQ ID NOS: 09-2-30
SOFTWARE: Patent version 3.0
SEQ ID NO 271
LENGTH: 27
ORGANISM: Conus striatus
FEATURE:
NAME/KEY SITE (27)
OTHER INFORMATION: Xaa at residue 1 may be Trp or bromo-Trp; Xaa at residue 4 may be Trp or bromo-Trp; Xaa at residue 4 may be Trp or bromo-Trp; Xaa at residue 4 may be Trp or bromo-Trp
OTHER INFORMATION: Pro or hydroxy-Pro
US-09-749-637A-271

Query Match 98.4%; Score 149; DB 10; Length 27;
 Best Local Similarity 100.0%; Pred. No. 1, Indels 0; Gaps 0;
 Matches 28; Conservative 0; Mismatches 0;
 QY 2 CIXSGDLCFRSHDHGCCSKCAVCL 27
 DB 2 CIXSGDLCFRSHDHGCCSKCAVCL 27

RESULT 2
 US-09-749-637a-270
 ; Sequence 270, Application US/09749637A
 ; Patent No. US20020173449A1
 ; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
 ; APPLICANT: University of Utah Research Foundation
 ; APPLICANT: Cognetix, Inc.
 ; APPLICANT: Oliveira, Baldomero M.
 ; APPLICANT: Wattler, G. Edward
 ; APPLICANT: Cartier, G. Edward
 ; APPLICANT: Watkins, Maren
 ; APPLICANT: Hilliard, David R.
 ; APPLICANT: McIntosh, J. Michael
 ; APPLICANT: Jones, Robert M.
 ; APPLICANT: Laves, Richard T.
 ; APPLICANT: McIntosh, J. Michael
 ; APPLICANT: Laves, Richard T.
 ; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
 ; FILE REFERENCE: 2314-227
 ; CURRENT APPLICATION NUMBER: US/09/749,637A
 ; PRIORITY APPLICATION NUMBER: 1; US 60/243,412
 ; PRIOR FILING DATE: 2000-10-27
 ; PRIOR APPLICATION NUMBER: US 60/243,412
 ; PRIOR FILING DATE: 2000-10-27
 ; PRIOR APPLICATION NUMBER: US60/219,440
 ; PRIOR FILING DATE: 2000-06-26
 ; PRIOR APPLICATION NUMBER: US 60/214,263
 ; PRIOR FILING DATE: 2000-06-26
 ; PRIOR APPLICATION NUMBER: US 60/173,754
 ; PRIOR FILING DATE: 2000-12-28
 ; NUMBER OF SEQ ID NOS: 3-30
 ; SOFTWARE: Patentin version 3.0
 ; SEQ ID NO 270
 ; TYPE: PPT
 ; ORGANISM: Conus striatus
 ; LOCUS TAG: 11
 ; LOCUS SITE (1) (29)
 ; OTHER INFORMATION: Xaa at residue 14e-11;
 ; OTHER INFORMATION: Pro or hydroxy-pro; 1; Indels 0; Gaps 0;
 QY 2 CIXSGDLCFRSHDHGCCSKCAVCL 27
 DB 2 CIXSGDLCFRSHDHGCCSKCAVCL 27

Query Match 97.4%; Score 148; DB 10; Length 29;
 Best Local Similarity 96.2%; Pred. No. 1, Indels 1; Gaps 0;
 Matches 25; Conservative 0; Mismatches 1;
 QY 2 CIXSGDLCFRSHDHGCCSKCAVCL 27
 DB 4 CIPSGDLFRSHDHGCCSKCAVCL 29

RESULT 3
 US-09-749-637a-267
 ; Sequence 267, Application US/09749637A
 ; Patent No. US20020173449A1
 ; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
 ; APPLICANT: University of Utah Research Foundation
 ; APPLICANT: Cognetix, Inc.
 ; APPLICANT: Oliveira, Baldomero M.
 ; APPLICANT: Wattler, G. Edward
 ; APPLICANT: Cartier, G. Edward
 ; APPLICANT: Watkins, Maren
 ; APPLICANT: Hilliard, David R.
 ; APPLICANT: McIntosh, J. Michael
 ; APPLICANT: Jones, Robert M.
 ; APPLICANT: Laves, Richard T.
 ; APPLICANT: McIntosh, J. Michael
 ; APPLICANT: Laves, Richard T.
 ; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
 ; FILE REFERENCE: 2314-227
 ; CURRENT APPLICATION NUMBER: US/09/749,637A
 ; PRIORITY APPLICATION NUMBER: 1; US 60/243,412
 ; PRIOR FILING DATE: 2000-10-27
 ; PRIOR APPLICATION NUMBER: US 60/243,412
 ; PRIOR FILING DATE: 2000-10-27

Query Match 94.7%; Score 144; DB 10; Length 29;
 Best Local Similarity 96.2%; Pred. No. 1, Indels 0; Gaps 0;
 Matches 24; Conservative 1; Mismatches 1;
 QY 2 CIXSGDLFRSHDHGCCSKCAVCL 27
 DB 4 CIPSGDLFRSHDHGCCSKCAVCL 29

RESULT 4
 US-09-749-637a-268
 ; Sequence 268, Application US/09749637A
 ; Patent No. US20020173449A1
 ; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
 ; APPLICANT: University of Utah Research Foundation
 ; APPLICANT: Cognetix, Inc.
 ; APPLICANT: Oliveira, Baldomero M.
 ; APPLICANT: Wattler, G. Edward
 ; APPLICANT: Cartier, G. Edward
 ; APPLICANT: Watkins, Maren
 ; APPLICANT: Hilliard, David R.
 ; APPLICANT: McIntosh, J. Michael
 ; APPLICANT: Jones, Robert M.
 ; APPLICANT: Laves, Richard T.
 ; APPLICANT: McIntosh, J. Michael
 ; APPLICANT: Laves, Richard T.
 ; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
 ; FILE REFERENCE: 2314-227
 ; CURRENT APPLICATION NUMBER: US/09/749,637A
 ; PRIORITY APPLICATION NUMBER: 1; US 60/243,412
 ; PRIOR FILING DATE: 2000-10-27
 ; PRIOR APPLICATION NUMBER: US 60/243,412
 ; PRIOR FILING DATE: 2000-10-27
 ; PRIOR APPLICATION NUMBER: US60/219,440
 ; PRIOR FILING DATE: 2000-06-26
 ; PRIOR APPLICATION NUMBER: US 60/214,263
 ; PRIOR FILING DATE: 2000-06-26
 ; PRIOR APPLICATION NUMBER: US 60/173,754
 ; PRIOR FILING DATE: 2000-12-28
 ; NUMBER OF SEQ ID NOS: 3-30
 ; SOFTWARE: Patentin version 3.0
 ; SEQ ID NO 268
 ; TYPE: PPT
 ; ORGANISM: Conus striatus
 ; LOCUS TAG: 11
 ; LOCUS SITE (1) (29)
 ; OTHER INFORMATION: Xaa at residue 3 may be Trp or bromo-Trp; Xaa at residue 6 may be Glu or gamma-carbo-
 ; OTHER INFORMATION: Pro or hydroxy-pro; Xaa at residue 9 may be Glu or gamma-carbo-
 ; OTHER INFORMATION: Glu
 US-09-749-637a-266
 Query Match 93.4%; Score 142; DB 10; Length 29;
 Best Local Similarity 96.2%; Pred. No. 7, Indels 1; Gaps 0;
 Matches 25; Conservative 0; Mismatches 1;
 QY 2 CIXSGDLFRSHDHGCCSKCAVCL 27
 DB 4 CIXSGDLFRSHDHGCCSKCAVCL 29

RESULT 5
 US-09-749-637a-269
 ; Sequence 269, Application US/09749637A
 ; Patent No. US20020173449A1
 ; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
 ; APPLICANT: University of Utah Research Foundation
 ; APPLICANT: Cognetix, Inc.
 ; APPLICANT: Oliveira, Baldomero M.
 ; APPLICANT: Wattler, G. Edward
 ; APPLICANT: Cartier, G. Edward
 ; APPLICANT: Watkins, Maren
 ; APPLICANT: Hilliard, David R.
 ; APPLICANT: McIntosh, J. Michael
 ; APPLICANT: Jones, Robert M.
 ; APPLICANT: Laves, Richard T.
 ; APPLICANT: McIntosh, J. Michael
 ; APPLICANT: Laves, Richard T.
 ; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
 ; FILE REFERENCE: 2314-227
 ; CURRENT APPLICATION NUMBER: US/09/749,637A
 ; PRIORITY APPLICATION NUMBER: 1; US 60/243,412
 ; PRIOR FILING DATE: 2000-10-27
 ; PRIOR APPLICATION NUMBER: US 60/243,412
 ; PRIOR FILING DATE: 2000-10-27

Tue Nov 18 11:55:36 2003

us-09-749-637a-271.rapb

Page

APPLICANT: Jones, Robert M.
FILE REFERENCE: 2314-227
CURRENT APPLICATION NUMBER: US/09/749,637A
PRIOR APPLICATION NUMBER: US 60/243,412
PRIOR FILING DATE: 2000-10-27
PRIOR FILING DATE: 2000-10-27
PRIOR FILING DATE: 2000-07-20
PRIOR APPLICATION NUMBER: US 60/214,263
PRIOR APPLICATION NUMBER: US 60/214,263
PRIOR FILING DATE: 1999-12-30
NUMBER OF SEQ ID NOS: 409
SOFTWARE: Patent in version 3.0
SEQ ID NO 373
LENGTH: 26
ORGANISM: Conus circumcissus
FEATURE: SITE
LOCATION: (1): (26)
OTHER INFORMATION: Xaa at residues 3 and 10 may be Pro or hydroxy-Pro.
Query Match 84.9%; Score 129; DB 10; Length 26;
Best Local Similarity 88.5%; Pred. No. 2.8e-09;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 2 CTVSDGDLCPASDHQCCSKAPVCL 27
pb 1 CTVSDGDLCPASDHQCCSKAPVCL 26
RESULT 9
US-09-749-637a-370
Sequence 370, Application US/09/749,637A
Patent No. US20020173449A1
GENERAL INFORMATION: University of Utah Research Foundation
APPLICANT: Cognetix, Inc.
APPLICANT: Oliviera, Baldoemero M.
APPLICANT: Cartier, G. Edward
APPLICANT: Watkins, Warren
APPLICANT: Hillward, David R.
APPLICANT: Laver, Richard T.
TITLE OF INVENTION: Conus superfamily Conotoxin peptides
FILE REFERENCE: 2314-227
CURRENT APPLICATION NUMBER: US/09/749,637A
PRIOR APPLICATION NUMBER: US 60/243,412
PRIOR FILING DATE: 2000-10-27
PRIOR FILING DATE: 2000-07-20
PRIOR APPLICATION NUMBER: US 60/214,263
PRIOR APPLICATION NUMBER: US 60/214,263
PRIOR FILING DATE: 1999-12-30
NUMBER OF SEQ ID NOS: 409
SOFTWARE: Patent in version 3.0
SEQ ID NO 370
LENGTH: 26
ORGANISM: Conus circumcissus
FEATURE: SITE
LOCATION: (1): (27)
OTHER INFORMATION: Xaa at residues 1 may be Trp or bromo-Trp; Xaa at residues 4 and 10 may be Pro or hydroxy-Pro
US-09-749-637a-370

Query Match 84.9%; Score 129; DB 10; Length 27;
Best Local Similarity 88.5%; Pred. No. 2.8e-09;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 2 CTVSDGDLCPASDHQCCSKAPVCL 27
Db 2 CTVSDGDLCPASDHQCCSKAPVCL 27
RESULT 10
US-09-749-637a-379
Sequence 379, Application US/09/749,637A
Patent No. US20020173449A1
GENERAL INFORMATION: University of Utah Research Foundation
APPLICANT: Cognetix, Inc.
APPLICANT: Oliviera, Baldoemero M.
APPLICANT: Cartier, G. Edward
APPLICANT: Watkins, Warren
APPLICANT: Hillward, David R.
APPLICANT: Laver, Richard T.
APPLICANT: Jones, Robert M.
TITLE OF INVENTION: Conus superfamily Conotoxin peptides
FILE REFERENCE: 2314-227
CURRENT APPLICATION NUMBER: US/09/749,637A
PRIOR APPLICATION NUMBER: US 60/243,412
PRIOR FILING DATE: 2000-10-27
PRIOR FILING DATE: 2000-07-20
PRIOR APPLICATION NUMBER: US 60/214,263
PRIOR APPLICATION NUMBER: US 60/214,263
PRIOR FILING DATE: 1999-12-30
NUMBER OF SEQ ID NOS: 409
SOFTWARE: Patent in version 3.0
SEQ ID NO 379
LENGTH: 27
ORGANISM: Conus circumcissus
FEATURE: SITE
LOCATION: (1): (27)
OTHER INFORMATION: Xaa at residues 1 may be Trp or bromo-Trp; Xaa at residues 4 and 10 may be Pro or hydroxy-Pro
US-09-749-637a-379
Query Match 84.9%; Score 129; DB 10; Length 27;
Best Local Similarity 88.5%; Pred. No. 2.8e-09;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 2 CTVSDGDLCPASDHQCCSKAPVCL 27
Db 2 CTVSDGDLCPASDHQCCSKAPVCL 27
RESULT 11
US-09-749-637a-369
Sequence 369, Application US/09/749,637A
Patent No. US20020173449A1
GENERAL INFORMATION: University of Utah Research Foundation
APPLICANT: Cognetix, Inc.
APPLICANT: Oliviera, Baldoemero M.
APPLICANT: Cartier, G. Edward
APPLICANT: Watkins, Warren
APPLICANT: Hillward, David R.
APPLICANT: Laver, Richard T.
APPLICANT: Jones, Robert M.
TITLE OF INVENTION: Conus superfamily Conotoxin peptides
FILE REFERENCE: 2314-227

[illegible]

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; NAME/KEY: SITE
; LOCATION: (1), (26)
; OTHER INFORMATION: Xaa at residues 3 and 10 may be Pro or hydroxy-Pro.
US-09-749-637A-367
Query Match      82.9%; Score 126; DB 10; Length 27;
Best Local Similarity 84.6%; Pred. No. 6.5e-09;
Matches 22; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 2 CINSGLCFRSHICGCGKAFVCL 27
Db 1 CINSGLCFRSHICGCGKAFVCL 26
RESULT 15
US-09-749-637A-385
; Sequence 385, Application US/09749637A
; Patent No. US20020173449A1
; GENETIC INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Oliveira, Baldomero M.
; APPLICANT: Gellera, Edward
; APPLICANT: Watkins, Warren
; APPLICANT: Hillyard, David R.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Jones, Robert M.
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
; FILE REFERENCE: 2314-227
; CURRENT PRIORITY NUMBER: US/09/749,637A
; CURRENT FILING DATE: 2000-10-28
; PRIOR APPLICATION NUMBER: US 60/243,412
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US60/219,440
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/214,263
; PRIOR FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: US 60/173,754
; PRIOR FILING DATE: 2000-01-20
; NUMBER OF SEQ ID NOS: 409
; SOFTWARE: Patent version 3.0
; SEQ ID NO 385
; Accession: 17
; TYPE: PRT
; ORGANISM: Conus circumcinctus
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1), (27)
; OTHER INFORMATION: Xaa at residue 1 may be Trp or bromo-Trp; Xaa at residues 4 and 1
; OTHER INFORMATION: 1 may be Pro or hydroxy-Pro
US-09-749-637A-385
Query Match      82.9%; Score 126; DB 10; Length 27;
Best Local Similarity 84.6%; Pred. No. 6.5e-09;
Matches 22; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 2 CINSGLCFRSHICGCGKAFVCL 27
Db 2 CINSGLCFRSHICGCGKAFVCL 27
Search completed: November 17, 2003, 17:15:22
Job time : 23.1429 secs

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1 HYPOTHETICAL: NO
2 ANTI-SENSE: NO
3 ORGANISM: Atrax robustus
4
5 FEATURES:
6 NAME/KEY: Modified-site
7 OTHER INFORMATION: /label= a
8 OTHER INFORMATION: /note= "this site may be amidated without loss
9 OTHER INFORMATION: of biological activity"
10
11 US-08-682-485A-4

Query Match 40.13; Score 61; DB 1; Length 37;
Best Local Similarity 47.8; Pred. No. 1.2;
Matches 11; Conservative 3; Mismatches 7; Indels 2; Gaps 1;

Qy 2 CIXSDCLFRSHDHCCKGNCF 24
Db 4 CIFSQCPTVNER--CCSGCTY 24

RESULT 2

US-08-933-314-4
Patent No. 595573

GENERAL INFORMATION:

APPLICANT: ATKINSON, RONALD K

INVENTOR: ATKINSON, RONALD K

APPLICANT: TAYLOR, WALTER E. H.

APPLICANT: VONARX, EDWARD J.

TITLE OF INVENTION: Insecticidal Toxins Derived From

NUMBER OF SEQUENCES: Tunnel Web (Atrax of Hadronyche Spiders)

NUMBER OF SEQUENCES: 2

CORRESPONDENCE ADDRESS:

ADDRESSEE: Zeneca, Inc.

CITY: Richmond

STATE: California

COUNTRY: USA

ZIP: 94804

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/933-314

FILING DATE: 1998-07-27

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/682-485

FILING DATE: 17-JUL-1996

PENDING DATE: 20-JUL-1994

APPLICATION NUMBER: WO 93/15108

FILING DATE: 29-JAN-1993

APPLICATION NUMBER: P/0722

ATTORNEY/AGENT INFORMATION:

NAME: Shaw, Melissa A.

REGISTRATION NUMBER: 38,301

TELEPHONE: 510-231-1542

INFORMATION:

TELEPHONE: 510-231-1112

SEQUENCE CHARACTERISTICS:

LENGTH: 37 amino acids

TYPE: amino acid

TOPOLOGY: linear

HYPOTHETICAL: NO

ANTI-SENSE: NO

1 ORIGINAL SOURCE:
2 ORGANISM: Atrax robustus
3 FEATURE KEY: Modified-site
4 LOCATION: 37
5 NAME/KEY: Modified-site
6 OTHER INFORMATION: /label= a
7 OTHER INFORMATION: /note= "this site may be amidated without loss
8 OTHER INFORMATION: of biological activity"
9
10 US-08-933-314-4

Query Match 40.13; Score 61; DB 2; Length 37;
Best Local Similarity 47.8; Pred. No. 1.2;
Matches 11; Conservative 3; Mismatches 7; Indels 2; Gaps 1;

Qy 2 CIXSDCLFRSHDHCCKGNCF 24
Db 4 CIFSQCPTVNER--CCSGCTY 24

RESULT 3

US-08-505-486-86
Sequence 86, Application US/08505486

Patent No. 595573

GENERAL INFORMATION:

APPLICANT: ATKINSON, RONALD K

INVENTOR: ATKINSON, RONALD K

APPLICANT: TAYLOR, WALTER E. H.

APPLICANT: VONARX, EDWARD J.

TITLE OF INVENTION: UBIQUITIN-LYTIC PEPTIDE FUSION GENE

NUMBER OF SEQUENCES: CONSTRUCTS, PROTEIN PRODUCTS DERIVING THEREFROM, AND

NUMBER OF SEQUENCES: METHODS OF MAKING AND USING SAME

CORRESPONDENCE ADDRESS:

ADDRESSEE: ROTHWELL, FIGG, ERNST & KURZ

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20004

COMPUTER: IBM COMPATIBLE

OPERATING SYSTEM: DOS

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/505,486

FILING DATE: 21-JUL-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: U.S. 08/379,472

FILING DATE: 22-JUL-1994

ATTORNEY/AGENT INFORMATION:

NAME: WALKER, BARBARA H.

REGISTRATION NUMBER: 35,400

TELEPHONE: (202) 783-6040

TELEPHONE: (202) 783-6040

INFORMATION FOR SEQ ID NO: 86:

SEQUENCE CHARACTERISTICS:

LENGTH: 36

TYPE: AMINO ACID

TOPOLOGY: LINEAR

HYPOTHETICAL: NO

FRAGMENT TYPE: COMPLETE PEPTIDE

IMMEDIATE SOURCE: SYNTHETIC

PUBLICATION INFORMATION: NOT PREVIOUSLY PUBLISHED

US-08-505-486-86

Query Match 33.28; Score 50.5; DB 2; Length 36;
Best Local Similarity 45.8; Pred. No. 17;
Matches 11; Conservative 1; Mismatches 7; Indels 5; Gaps 2;


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; FILE REFERENCE: 2093-149
; CURRENT APPLICATION NUMBER: US/09/482,611B
; PCT-US95-09319-86
; PRIOR FILING DATE: 1997-02-19 US/601,028
; PRIOR APPLICATION NUMBER: US 08/279,472
; NUMBER OF SEQ ID NOS: 107-22
; SOFTWARE: Patent version 3.1
; SEQ ID NO 86
; LENGTH: 36
; MOLECULE TYPE: PEPTIDE
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Lytic Peptide
; US-09-482-611B-86

Query Match      33.24; Score 50.5; DB 4; Length 36;
Best Local Similarity 45.84; Pred. No. 17;
Matches 11; Conservative 1; Mismatches 7; Indels 5; Gaps 2;

Qy      2 CXSGDLCFSDHIG---CCSGKC 22
Db      1 CIGGQSKC-QDQGGPFCGSGVC 22

RESULT 7 09319-86
PCT-US95-09319-86
; SEQUENCE 86 Application PC/TUS9509319
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: UBQUITIN-LYTIC PEPTIDE FUSION GENE
; TITLE OF INVENTION: CONSTRUCTS, PROTEIN PEPTIDES, DERIVING THEREFROM, AND
; TITLES OF INVENTION: METHODS OF MAKING AND USING THE SAME
; NUMBER OF SEQUENCES: 98
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: COMPLETE PEPTIDE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1+
; APPLICATION NUMBER: PCT/US95/09319
; FILING DATE: 21-JUL-1994
; PRIOR APPLICATION DATA: 08/279,472
; FILING DATE: 22-JUL-1994
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; TYPE: AMINO ACID
; TOPOLOGY: LINEAR
; MOLECULE TYPE: PEPTIDE
; DESCRIPTION: NO
; HYDROPHOBIC TYPE: NO
; FRAGMENT TYPE: COMPLETE PEPTIDE
; ORIGINAL SOURCE: SYNTHETIC
; IMMEDIATE SOURCE: SYNTHETIC
; PUBLISHED INFORMATION: NOT PREVIOUSLY PUBLISHED
PCT-US95-09319-86

Query Match      33.24; Score 50.5; DB 5; Length 36;
Best Local Similarity 45.84; Pred. No. 17;
Matches 11; Conservative 1; Mismatches 7; Indels 5; Gaps 2;

Qy      2 CXSGDLCFSDHIG---CCSGKC 22
Db      1 CIGGQSKC-QDQGGPFCGSGVC 22

RESULT 8
PCT-US95-09319-86
; SEQUENCE 86 Application PC/TUS9509319
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: UBQUITIN-LYTIC PEPTIDE FUSION GENE
; TITLE OF INVENTION: CONSTRUCTS, PROTEIN PEPTIDES, DERIVING THEREFROM, AND
; TITLES OF INVENTION: METHODS OF MAKING AND USING THE SAME
; NUMBER OF SEQUENCES: 98
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: COMPLETE PEPTIDE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1+
; APPLICATION NUMBER: PCT/US95/09319
; FILING DATE: 21-JUL-1994
; PRIOR APPLICATION DATA: 08/279,472
; FILING DATE: 22-JUL-1994
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; TYPE: AMINO ACID
; TOPOLOGY: LINEAR
; MOLECULE TYPE: PEPTIDE
; DESCRIPTION: NO
; HYDROPHOBIC TYPE: NO
; FRAGMENT TYPE: COMPLETE PEPTIDE
; ORIGINAL SOURCE: SYNTHETIC
; IMMEDIATE SOURCE: SYNTHETIC
; PUBLISHED INFORMATION: NOT PREVIOUSLY PUBLISHED
PCT-US95-09319-86

Query Match      33.24; Score 50.5; DB 5; Length 36;
Best Local Similarity 45.84; Pred. No. 17;
Matches 11; Conservative 1; Mismatches 7; Indels 5; Gaps 2;

Qy      2 CXSGDLCFSDHIG---CCSGKC 22
Db      1 CIGGQSKC-QDQGGPFCGSGVC 22

RESULT 9
PCT-US95-09319-86
; SEQUENCE 86 Application PC/TUS9509319
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: UBQUITIN-LYTIC PEPTIDE FUSION GENE
; TITLE OF INVENTION: CONSTRUCTS, PROTEIN PEPTIDES, DERIVING THEREFROM, AND
; TITLES OF INVENTION: METHODS OF MAKING AND USING THE SAME
; NUMBER OF SEQUENCES: 98
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: COMPLETE PEPTIDE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1+
; APPLICATION NUMBER: PCT/US95/09319
; FILING DATE: 21-JUL-1994
; PRIOR APPLICATION DATA: 08/279,472
; FILING DATE: 22-JUL-1994
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; TYPE: AMINO ACID
; TOPOLOGY: LINEAR
; MOLECULE TYPE: PEPTIDE
; DESCRIPTION: NO
; HYDROPHOBIC TYPE: NO
; FRAGMENT TYPE: COMPLETE PEPTIDE
; ORIGINAL SOURCE: SYNTHETIC
; IMMEDIATE SOURCE: SYNTHETIC
; PUBLISHED INFORMATION: NOT PREVIOUSLY PUBLISHED
PCT-US95-09319-86

Query Match      33.24; Score 50.5; DB 5; Length 36;
Best Local Similarity 45.84; Pred. No. 17;
Matches 11; Conservative 1; Mismatches 7; Indels 5; Gaps 2;

Qy      2 CXSGDLCFSDHIG---CCSGKC 22
Db      1 CIGGQSKC-QDQGGPFCGSGVC 22

RESULT 9
US-07-689-693B-6
; SEQUENCE 6, Application US/07689693B
; Patent No. 5231011
; GENERAL INFORMATION:
; APPLICANT: Baldomero M. Olivera
; TITLE OF INVENTION: Segregated Folding Determinants
; TITLE OF INVENTION: CONSTRUCTS, PROTEIN PEPTIDES, DERIVING THEREFROM, AND
; TITLES OF INVENTION: METHODS OF MAKING AND USING THE SAME
; NUMBER OF SEQUENCES: 98
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Thorpe, No 5231011th & Western
; STREET: 9035 South 700 East, Suite 200
; CITY: Salt Lake
; STATE: Utah
; COUNTRY: USA
; ZIP: 84009
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 720 Kb storage
; OPERATING SYSTEM: DOS 4.01
; SOFTWARE: WORDPERFECT 5.1
; APPLICATION NUMBER: US/07/689,693B
; FILING DATE: 19910418
; FILING DATE: 08/279,472
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: none
; FILING DATE: NA
; FILING DATE: INFORMATION:
; ATTORNEY/AGENT NAME: M. No. 22,788
; REGISTRATION NUMBER: 9925
; REFERENCE/DOCKET NUMBER: 9925

```

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; APPLICANT:
; APPLICANT:
; TITLE OF INVENTION: UBQUITIN-LYTIC PEPTIDE FUSION GENE
; TITLE OF INVENTION: CONSTRUCTS, PROTEIN PEPTIDES, DERIVING THEREFROM, AND
; TITLES OF INVENTION: METHODS OF MAKING AND USING THE SAME
; NUMBER OF SEQUENCES: 98
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: COMPLETE PEPTIDE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1+
; APPLICATION NUMBER: PCT/US95/09319
; FILING DATE: 21-JUL-1994
; PRIOR APPLICATION DATA: 08/279,472
; FILING DATE: 22-JUL-1994
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; TYPE: AMINO ACID
; TOPOLOGY: LINEAR
; MOLECULE TYPE: PEPTIDE
; DESCRIPTION: NO
; HYDROPHOBIC TYPE: NO
; FRAGMENT TYPE: COMPLETE PEPTIDE
; ORIGINAL SOURCE: SYNTHETIC
; IMMEDIATE SOURCE: SYNTHETIC
; PUBLISHED INFORMATION: NOT PREVIOUSLY PUBLISHED
PCT-US95-09319-86

Query Match      33.24; Score 50.5; DB 5; Length 36;
Best Local Similarity 45.84; Pred. No. 17;
Matches 11; Conservative 1; Mismatches 7; Indels 5; Gaps 2;

Qy      2 CXSGDLCFSDHIG---CCSGKC 22
Db      1 CIGGQSKC-QDQGGPFCGSGVC 22

RESULT 9
US-07-689-693B-6
; SEQUENCE 6, Application US/07689693B
; Patent No. 5231011
; GENERAL INFORMATION:
; APPLICANT: Baldomero M. Olivera
; TITLE OF INVENTION: Segregated Folding Determinants
; TITLE OF INVENTION: CONSTRUCTS, PROTEIN PEPTIDES, DERIVING THEREFROM, AND
; TITLES OF INVENTION: METHODS OF MAKING AND USING THE SAME
; NUMBER OF SEQUENCES: 98
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Thorpe, No 5231011th & Western
; STREET: 9035 South 700 East, Suite 200
; CITY: Salt Lake
; STATE: Utah
; COUNTRY: USA
; ZIP: 84009
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 720 Kb storage
; OPERATING SYSTEM: DOS 4.01
; SOFTWARE: WORDPERFECT 5.1
; APPLICATION NUMBER: US/07/689,693B
; FILING DATE: 19910418
; FILING DATE: 08/279,472
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: none
; FILING DATE: NA
; FILING DATE: INFORMATION:
; ATTORNEY/AGENT NAME: M. No. 22,788
; REGISTRATION NUMBER: 9925
; REFERENCE/DOCKET NUMBER: 9925

```

TELECOMMUNICATION INFORMATION:
 NAME: US-09-749-637a-271
 TELEFAX: (801) 566-0750
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 37 amino acids
 TYPE: AMINO ACID
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 FEMARKEY: King Kong (kko) conotoxin
 IDENTIFICATION METHOD: Direct peptide sequencing
 IDENTIFICATION METHOD: of purified Conus textile venom
 US-07-689-6938-6

Query Match 32.9%; Score 50; DB 1; Length 27;
 Best Local Similarity 42.3%; Pred. No. 15; 11; Indels 2; Gaps 2;
 Matches 11; Conservative 2; Mismatches 11

QY 2 CINSGLCFPSHIGCCSCX-ATVC 26
 DB 2 CNOSEGMCLLDQ-NCCDNYCIVLVC 26

RESULT 10
 US-08-682-485A-8
 Sequence 8: Application US/08682485A
 GENERAL INFORMATION:
 APPLICANT: ATKINSON, RONALD K
 APPLICANT: HOWDEN, MERLIN E.H.
 APPLICANT: TYLER, MARGARET J
 APPLICANT: VONARX, EDWARD J
 TITLE OF INVENTION: Insecticidal Toxins Derived From
 FUNNEL WEB (ATRAX OR HADRONYCHE SPIDERS)
 NUMBER OF SEQUENCES: 26
 ADDRESS: ZENECA INC.
 STREET: 1200 South 47th Street
 CITY: Richmond
 STATE: California
 COUNTRY: USA
 ZIP: 94804
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/682,485A
 FILING DATE: 27-JULY-1994
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/682,485
 APPLICATION NUMBER: US/08/256,933
 FILING DATE: 27-JULY-1994
 APPLICATION NUMBER: WO 93/15108
 FILING DATE: 29-JAN-1993
 APPLICATION NUMBER: AU 640722
 FILING DATE: 31-JAN-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Shaw, Melissa A, 301
 TELEPHONE: 510-231-1542
 TELEFAX: 510-231-1112
 TELECOMMUNICATION INFORMATION:
 REFERENCE/DOCKET NUMBER: PPD 5099/DI
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 37 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO

MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 ORIGINAL SOURCE:
 ORGANISM: Atrax formidabilis
 FEATURE:
 LOCATION: 37
 MODIFIED-SITE
 OTHER INFORMATION: /label= a
 OTHER INFORMATION: /note= "this site may be amidated without loss
 of biological activity"
 US-08-682-485A-8

Query Match 32.9%; Score 50; DB 1; Length 37;
 Best Local Similarity 43.5%; Pred. No. 19; 8; Indels 2; Gaps 1;
 Matches 10; Conservative 3; Mismatches 8

QY 2 CINSGLCFPSHIGCCSGKCAF 24
 DB 4 CIRSQQCPYNN--CCSQCTF 24

RESULT 11
 US-08-933-314-8
 Sequence 8: Application US/08933314
 GENERAL INFORMATION:
 APPLICANT: ATKINSON, RONALD K
 APPLICANT: HOWDEN, MERLIN E.H.
 APPLICANT: TYLER, MARGARET J
 APPLICANT: VONARX, EDWARD J
 TITLE OF INVENTION: Insecticidal Toxins Derived From
 FUNNEL WEB (ATRAX OR HADRONYCHE SPIDERS)
 NUMBER OF SEQUENCES: 26
 ADDRESS: ZENECA INC.
 STREET: 1200 South 47th Street
 CITY: Richmond
 STATE: California
 COUNTRY: USA
 ZIP: 94804
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: IBM PC compatible
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/933,314
 FILING DATE:
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/682,485
 APPLICATION NUMBER: US/08/256,933
 FILING DATE: 27-JULY-1994
 APPLICATION NUMBER: WO 93/15108
 FILING DATE: 29-JAN-1993
 APPLICATION NUMBER: AU 640722
 FILING DATE: 31-JAN-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Shaw, Melissa A, 301
 TELEPHONE: 510-231-1542
 TELEFAX: 510-231-1112
 TELECOMMUNICATION INFORMATION:
 REFERENCE/DOCKET NUMBER: PPD 5099/DI
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 37 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO


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ANTI-SENSE: NO
SOURCE:
ORGANISM: Atrax formidabilis
FEATURES:
NAME/KEY: Modified-site
LOCATION INFORMATION: /label-a
OTHER INFORMATION: /note= "this site may be amidated without loss
OTHER INFORMATION: of biological activity"
US-08-933-14-8
Query Match 32.9%; Score 50; DB 2; Length 37;
Best Local Similarity 43.5%; Pred. No. 13;
Matches 10; Conservative 3; Mismatches 8; Indels 2; Gaps 1;
OY 2 CIXSGDLCPFSHDHGCCSGKCAW 24
Db 4 CIRSQCPCYMER--CCSGCTF 24

RESULT 12
US-07-689-693B-5
Pred. No. 5; Application US/07689693B
Patent No. 5231011
GENERAL INFORMATION:
APPLICANT: David Hillyard
INVENTOR: David Hillyard, Olivera
TITLE OF INVENTION: Segregated Folding Determinants
TITLE OF INVENTION: for Small Disulfide-Rich Peptides
NUMBER OF SEQUENCES: 25
COMMENTS: ADDRESS: 25
ADDRESS: 9035 South 700 East, Suite 200
STREET: 9035 South 700 East, Suite 200
CITY: Sandy
STATE: Utah
COUNTRY: US
ZIP: 84070
COMPUTER READABLE FORM:
MEDIUM TYPE: diskette, 3.5 inch, 720 Kb storage
MEDIUM SIZE: 3.5 inch, 720 Kb storage
OPERATING SYSTEM: DOS 4.01
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA: /07/689,693B
NUMBER OF SEQUENCES: 25
FILING DATE: 19910418
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: none
FILING DATE: none
ATTORNEY/AGENT INFORMATION:
NAME: Western, M. Wayne
REFERENCE/DOCKET NUMBER: 9925
TELECOMMUNICATION INFORMATION:
TELEPHONE: (801) 566-6633
FAX: (801) 566-0750
INFORMATION CHARACTERISTICS:
SEQUENCE CHARACTERISTICS: 5;
LENGTH: 78 amino acids
TYPE: AMINO ACID
MOLECULE TYPE: peptide
FEATURES:
NAME/KEY: Prepropeptide sequence for four loop
IDENTIFICATION METHOD: Library was constructed
IDENTIFICATION METHOD: using polyA selected mRNA transcripts purified
IDENTIFICATION METHOD: from Conus textile venom duct tissue and cloned
IDENTIFICATION METHOD: into the Okayama-Berg oligo-dT primed plasmid
IDENTIFICATION METHOD: pSV7106.
US-07-689-693B-5
Query Match 32.9%; Score 50; DB 1; Length 78;
Best Local Similarity 42.3%; Pred. No. 35;
Matches 11; Conservative 2; Mismatches 11; Indels 2; Gaps 2;
OY 2 CIXSGDLCPFSHDHGCCSGKCAW 26
Db 53 CROSSEVCULLDQ--NCCDGCYCVLVC 77

RESULT 13
US-08-624-123-13
Pred. No. 53; Application US/08624123
Patent No. 5739276
GENERAL INFORMATION:
APPLICANT: Shon, Ki-Joon
INVENTOR: Shon, Ki-Joon, Baldoero W.
APPLICANT: Olivera, Baldoero W.
TITLE OF INVENTION: Conotoxin Peptides
NUMBER OF SEQUENCES: 13
COMMENTS: ADDRESS: 13
ADDRESS: variable, Baetjer, Howard & Civiletti
STREET: 1201 New York Avenue N.W.
CITY: Washington
STATE: DC
COUNTRY: US
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: disk
MEDIUM SIZE: 3.5 inch, 720 Kb storage
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/624,123
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/319,554
FILING DATE: 07-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/423,561
FILING DATE: 07-OCT-1994
ATTORNEY/AGENT INFORMATION:
NAME: Innes, Jeffrey L.
REGISTRATION NUMBER: 28,957
TELEPHONE: 202-962-8300
FAX: 202-962-8300
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4810
INFORMATION CHARACTERISTICS:
SEQUENCE CHARACTERISTICS: 13;
LENGTH: 78 amino acids
TYPE: amino acid
MOLECULE TYPE: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-08-624-123-13
Query Match 32.9%; Score 50; DB 1; Length 78;
Best Local Similarity 42.3%; Pred. No. 35;
Matches 11; Conservative 2; Mismatches 11; Indels 2; Gaps 2;
OY 2 CIXSGDLCPFSHDHGCCSGKCAW 26
Db 53 CROSSEVCULLDQ--NCCDGCYCVLVC 77

RESULT 14
US-08-716-309-2
Pred. No. 53; Application US/08716308
Patent No. 5895169
GENERAL INFORMATION:
APPLICANT: Mindaas, John D.
TITLE OF INVENTION: Biological Insect Control Agent

```

```

1  NUMBER OF SEQUENCES: 18
2  CURRENT INVENTOR:
3  COMPANY: ZENECA INC.
4  STREET: 1800 Concord Pike
5  CITY: Wilmington
6  STATE: DE
7  COUNTRY: DE USA
8  ZIP: 19850
9  COMPUTER READABLE FORM:
10 MEDIUM TYPE: Floppy disk
11 OPERATING SYSTEM: PC-DOS/MS-DOS
12 SOFTWARE: Patent In Release #1.0, Version #1.25
13 CURRENT APPLICATION DATA: /08/716.308
14 FILING DATE: 24-SEP-1996
15 CLASSIFICATION: 424
16 PRIOR APPLICATION DATA: PCT/GB95/00677
17 FILING DATE: 27-MAR-1995
18 PRIOR APPLICATION DATA: GB 9405951.6
19 APPLICATION NUMBER: GB 9405951.6
20 FILING DATE: 27-MAR-1995
21 ATTORNEY AGENT INFORMATION:
22 NAME: Hohenschutz, Liza D.
23 REGISTRATION NUMBER: 33,712
24 REFERENCE/DOCKET NUMBER: PPD40027X/UST
25 TELEPHONE: (302) 886-1699
26 INFORMATION FOR SEQ ID NO: 2:
27 SEQUENCE CHARACTERISTICS:
28 LENGTH: 18 amino acids
29 TYPE: amino acid
30 TOPOLOGY: linear
31 MOLECULE TYPE: peptide
32 US-08-716-308-2
33
34 Query Match
35 Best Local Similarity 42.3%; Pred. No. 35;
36 Matches 11; Conservative 2; Mismatches 11; Indels 2; Gaps 2;
37
38 QY 2 CIXSGNLCFRSHIGGCGK-AFVC 26
39 DB 53 CQSGSGMNLQDQ-MCCDGYCIVLVC 77
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41 Search completed: November 17, 2003, 17:11:58
42 Job time : 14.9821 secs

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1  PRIOR APPLICATION DATA:
2  APPLICATION NUMBER: GB 9405951.6
3  FILING DATE: 27-MAR-1995
4  ATTORNEY AGENT INFORMATION:
5  NAME: Hohenschutz, Liza D.
6  REGISTRATION NUMBER: 33,712
7  REFERENCE/DOCKET NUMBER: PPD40027X/UST
8  TELEPHONE: (302) 886-1699
9  INFORMATION FOR SEQ ID NO: 16:
10 SEQUENCE CHARACTERISTICS:
11 LENGTH: 18 amino acids
12 TYPE: amino acid
13 TOPOLOGY: linear
14 MOLECULE TYPE: peptide
15 US-08-716-308-16
16
17 Query Match
18 Best Local Similarity 32.9%; Score 50; DB 2; Length 78;
19 Matches 11; Conservative 2; Mismatches 11; Indels 2; Gaps 2;
20
21 QY 2 CIXSGNLCFRSHIGGCGK-AFVC 26
22 DB 53 CQSGSGMNLQDQ-MCCDGYCIVLVC 77
23
24 Search completed: November 17, 2003, 17:11:58
25 Job time : 14.9821 secs

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1  RESULT 15
2  US-08-716-308-16
3  Application US/08716308
4  Patent No. 5895563
5  GENERAL INFORMATION:
6  APPLICANT: Windase, Joan D.
7  INVENTOR: Windase, Joan D.
8  NUMBER OF SEQUENCES: 18
9  CORRESPONDENCE ADDRESS:
10 ADDRESSEE: ZENECA Inc.
11 STREET: 1800 Concord Pike
12 CITY: Wilmington
13 STATE: DE
14 COUNTRY: USA
15 ZIP: 19850
16 COMPUTER READABLE FORM:
17 MEDIUM TYPE: Floppy disk
18 OPERATING SYSTEM: IBM PC compatible
19 OPERATING SYSTEM: PC-DOS/MS-DOS
20 SOFTWARE: Patent In Release #1.0, Version #1.25
21 CURRENT APPLICATION DATA: /08/716.308
22 FILING DATE: 24-SEP-1996
23 CLASSIFICATION: 424
24 PRIOR APPLICATION DATA:
25 FILING DATE: 27-MAR-1995

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